

MODIS IOT Weekly Report

Mission Operations Days: 2001/019 to 2001/026

January 19, 2001 20:00:00 GMT to January 26, 2001 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in B-side Science Mode

Blackbody	A Off; B On	Nominal
Calibration Electronics	A Off; B On	Nominal
Control Processor	A Off; B On	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A Off; B On	Nominal
FDDI Port	A On; B Off	Nominal
FIFO Memory	1 & 2 Off; 3 & 4 On	Nominal
Format Processor	A Off; B On	Nominal
Power Supply: 1	Off	Nominal
2	On	Nominal
PV FPAs: VIS	A Off; B On	Nominal
NIR	A Off; B On	Nominal
SMIR	A Off; B On	Nominal
LWIR	A Off; B On	Nominal
PC FPA: LWIR	A Off; B On	Nominal
Radiative Cooler:		
Outgas Heaters	All Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A Off; B On	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A Off; B On	Nominal
Flight Software	Rev BD + 2 patches	Nominal
Inhibit Ids Set	None	Nominal

TMONs enabled

68

Nominal

This Week's Completed MODIS Activities:

Friday, January 19, 2001

None

Saturday, January 20, 2001

None

Sunday, January 21, 2001

None

Monday, January 22, 2001

None

Tuesday, January 23, 2001

None

Wednesday, January 24, 2001

2001/024 20:40:18 - 20:51:46 OA-15: SDSM OPEN

2001/024 20:19:11 - 22:30:39 OA-16: SDSM SCREENED

Thursday, January 25, 2001

None

Friday, January 26, 2001

None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, January 26, 2001

None

Saturday, January 27, 2001

None

Sunday, January 28, 2001
None

Monday, January 29, 2001
None

Tuesday, January 30, 2001
None

Wednesday, January 31, 2001
None

Thursday, February 01, 2001
None

Friday, February 02, 2001
None

Maneuvers:

A drag makeup maneuver was performed by the FOT at 017/19:38:00 to 017/21:08:00.
The next MODIS Lunar Calibration Roll Maneuver is planned for 2001/043, February 12th

MODIS Anomalies:

No formatter anomalies have been detected since switching to B-side science operations. The MODIS IOT is continuing to monitor changes with the radiative cooler temperatures and focal plane power.

General Instrument Comments:

MODIS is in Science Mode on the B-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches (FRFSP). No new events have been witnessed by the FRFSP since the B-Side Transition on DOY 2000/304.

MODIS Telemetry Trends:

The Radiative Cooler intermediate stage temperature has slowly been increasing since approximately day 2000/240. During this time the LWIR focal plane heater margin has been decreasing. The IOT is continuing to trend these telemetry mnemonics.

Temperature trends are correlating with the solar beta angle. This includes a steadying of the intermediate stage outgas temperature. This temperature is expected to increase again when the beta angle gets smaller.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 179.2 of 500 hours
SRCA 10W Lamp #2: 139.2 of 500 hours
SRCA 10W Lamp #3: 148.4 of 500 hours
SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 556.6 of 4000 hours
SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1513 of 3022 Movements
Nadir Aperture Door: 532 of 1316 Movements
Space View Door: 437 of 1316 Movements